Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1129/2021-22	Date	16-04-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work Order No	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Clients Letter Dated	16-04-2021
Source of Sample	Supplied by the Client
Date of Testing	16-04-2021
Technical Referance	MORTH Specifications

GSB MATERIAL

I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	1358	12.58	12.58	87.42	80-100	100	100	100	80-100	100
25	2784	28.74	41.32	58.68	55-90	70-100	55-75	50-80	55-90	75-100
10	2019	20.84	62.16	37.84	35-65	50-80	-	-	35-65	55-75
4.75	1004	10.68	72.84	27.16	25-55	40-65	10--30	15--35	25-50	30-55
2.36	998	10.2	83.04	16.96	20-40	30-50	-	-	10--20	10--25
0.425	1326	16.78	99.82	0.18	10--15	10--15	-	-	0-5	0-8
0.075	8.6	0.1	99.92	0.08	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.72	Should not be more than 2%
2	Maximum Dry Density	2.09	-
3	Optimium Moisture Content	5.32	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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Karnataka Material Test House Pvt. Ltd.,

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/1130/2021-22	Date	16-04-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work Order No	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Clients Letter Dated	16-04-2021
Source of Sample	Supplied by the Client
Date of Testing	16-04-2021
Technical Referance	MORTH Specifications

GSB MATERIAL

Weight of Sample taken			*15000*							
I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	1998	13.32	13.32	86.68	80-100	100	100	100	80-100	100
25	2121	14.14	27.46	72.54	55-90	70-100	55-75	50-80	55-90	75-100
10	2687	17.91	45.37	54.63	35-65	50-80	-	-	35-65	55-75
4.75	2326	15.51	60.88	39.12	25-55	40-65	10--30	15--35	25-50	30-55
2.36	2968	19.79	80.67	19.33	20-40	30-50	-	-	10--20	10--25
0.425	1286	8.57	89.24	10.76	10--15	10--15	-	-	0-5	0-8
0.075	968	6.45	95.69	4.31	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.88	Should not be more than 2%
2	Maximum Dry Density	2.08	-
3	Optimium Moisture Content	5.12	-
4	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj M S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1132/2021-22	Date	22-04-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work Order No	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Clients Letter Dated	22-04-2021
Source of Sample	Supplied by the Client
Date of Testing	22-04-2021
Technical Referance	MORTH Specifications

WMM MATERIAL ***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	298	298	2.98	97.02	95-100
22.4	2612	2910	29.10	70.90	60-80
11.2	2460	5370	53.70	46.30	40-60
4.75	1462	6832	68.32	31.68	25-40
2.36	1168	8000	80.00	20.00	15-30
0.6	986	8986	89.86	10.14	8--22
0.75	532.4	9518.4	95.18	4.82	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.81	Should not be more than 2%
2	Flakiness & Elongation Index	27.2%	Shall not be more than 40%
3	Aggregate Crushing Value	21.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/1133/2021-22	Date	22-04-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work Order No	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Clients Letter Dated	22-04-2021
Source of Sample	Supplied by the Client
Date of Testing	22-04-2021
Technical Referance	MORTH Specifications

WMM MATERIAL ***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	332	332	3.32	96.68	95-100
22.4	2784	3116	31.16	68.84	60-80
11.2	2954	6070	60.70	39.30	40-60
4.75	1653	7723	77.23	22.77	25-40
2.36	998.8	8721.8	87.22	12.78	15-30
0.6	816.4	9538.2	95.38	4.62	8--22
0.75	226.4	9764.6	97.65	2.35	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.87%	Should not be more than 2%
2	Flakiness & Elongation Index	29.8%	Shall not be more than 40%
3	Aggregate Crushing Value	19.5%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1136/2021-22	Date	27-05-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work Order No	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Clients Letter Dated	27-05-2021
Source of Sample	Supplied by the Client
Date of Testing	27-05-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*	*GRADE-II*

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	42.6	42.6	4.26	95.74	90-100
9.5	232.6	275.2	27.52	72.48	70-88
4.75	145.2	420.4	42.04	57.96	53-71
2.36	98.6	519	51.90	48.10	42-58
1.18	72.6	591.6	59.16	40.84	34-48
0.6	81.2	672.8	67.28	32.72	26-38
0.3	78.4	751.2	75.12	24.88	18-28
0.15	86.8	838	83.80	16.20	12--20
0.075	98.8	936.8	93.68	6.32	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	522.6	490.8	31.80	6.08
2	520.4	489.2	31.20	6.00
3	521.6	489.8	31.80	6.10
4	519.8	488.4	31.40	6.04

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K.S

Approved by
Narayanswamy.B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1137/2021-22	Date	27-05-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work Order No	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Clients Letter Dated	27-05-2021
Source of Sample	Supplied by the Client
Date of Testing	27-05-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***		***GRADE-II***
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	28.6	28.6	2.86	97.14	90-100
9.5	252.4	281	28.10	71.90	70-88
4.75	162.8	443.8	44.38	55.62	53-71
2.36	110.2	554	55.40	44.60	42-58
1.18	81.4	635.4	63.54	36.46	34-48
0.6	93.4	728.8	72.88	27.12	26-38
0.3	56.8	785.6	78.56	21.44	18-28
0.15	62.4	848	84.80	15.20	12--20
0.075	90.4	938.4	93.84	6.16	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	478.2	31.80	6.24
2	500.0	469.8	30.20	6.04
3	505.6	474.8	30.80	6.09
4	510.4	479.2	31.20	6.11

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K.S

Approved by
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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/1138/2021-22	Date	27-05-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work Order No	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Clients Letter Dated	27-05-2021
Source of Sample	Supplied by the Client
Date of Testing	27-05-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*		*GRADE-II*
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	29.8	29.8	2.98	97.02	90-100
9.5	248.8	278.6	27.86	72.14	70-88
4.75	159.6	438.2	43.82	56.18	53-71
2.36	114.2	552.4	55.24	44.76	42-58
1.18	85.4	637.8	63.78	36.22	34-48
0.6	96.4	734.2	73.42	26.58	26-38
0.3	51.8	786	78.60	21.40	18-28
0.15	63.4	849.4	84.94	15.06	12--20
0.075	85.6	935	93.50	6.50	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	506.8	474.6	32.20	6.35
2	506.8	475.2	31.60	6.24
3	507.4	474.8	32.60	6.42
4	505.8	474.2	31.60	6.25

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1139/2021-22	Date	25-05-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work Order No	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Clients Letter Dated	25-05-2021
Source of Sample	Supplied by the Client
Date of Testing	25-05-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*		*GRADE-II*
IS Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	55.4	55.4	5.54	94.46	90-100
19	226.6	282	28.20	71.80	71-95
13.2	132.4	414.4	41.44	58.56	56-80
4.75	99.6	514	51.40	48.60	38-54
2.36	152.4	666.4	66.64	33.36	28-42
0.3	182.4	848.8	84.88	15.12	7--21
0.075	125.8	974.6	97.46	2.54	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.0	481.6	28.40	5.57
2	495.8	470.1	25.70	5.18
3	530.0	500.2	29.80	5.62
4	510.0	481.2	28.80	5.65

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/1140/2021-22	Date	25-05-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Director Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains & Culverts at BHEL Layout And Ayyappa Layout And Surrounding Area in Ward No.3, Yelahanka Satellite Town Sub Division
Work Order No	BBMP/EE/YNK.D/W.O/187/2019-20
Job Code No	003-20-000070
Clients Letter Dated	25-05-2021
Source of Sample	Supplied by the Client
Date of Testing	25-05-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*		*GRADE-II*
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	50.2	50.2	5.02	94.98	90-100
19	199.6	249.8	24.98	75.02	71-95
13.2	153.4	403.2	40.32	59.68	56-80
4.75	112.2	515.4	51.54	48.46	38-54
2.36	154.6	670	67.00	33.00	28-42
0.3	184.6	854.6	85.46	14.54	7--21
0.075	142.6	997.2	99.72	0.28	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	510.2	482.2	28.00	5.49
2	509.8	481.6	28.20	5.53
3	512.2	484.2	28.00	5.47
4	508.4	479.8	28.60	5.63

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Note:
1)This reports is not to be reproduced except in full without our prior permission in writing.
2)The results listed refer only to the tested samples nd applicable parameters.
3)Any correction in the report will be invalid.

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